

Appendix Table 3-1
S&E occupations in the 1960 U.S. Census and 2013 American Community Survey

Census, 1960	American Community Survey, 2013
Biological, agricultural, and environmental life scientists	Biological, agricultural, and environmental life scientists
Agricultural scientists	Agricultural and food scientists
Biological scientists	Biological scientists
Foresters and conservationists	Conservation scientists and foresters
	Medical scientists; life scientists, all other
Mathematical scientists	Computer and mathematical scientists
Mathematicians	Computer and information research scientists
Statisticians and actuaries	Computer network architects
	Computer support specialists
	Computer systems analysts
	Database administrators
	Information security analysts
	Network and computer systems administrators
	Operations research analysts
	Software developers, applications and systems software
	Web developers
	Computer occupations, all other
	Miscellaneous mathematical science occupations, including mathematicians and statisticians
Physical scientists	Physical scientists
Chemists	Astronomers and physicists
Geologists and geophysicists	Atmospheric and space scientists
Physicists	Chemists and materials scientists
Miscellaneous natural scientists	Environmental scientists and geoscientists
	Physical scientists, all other
Social scientists	Social scientists
Economists	Economists
Psychologists	Psychologists
Miscellaneous social scientists	Urban and regional planners



Census, 1960		American Community Survey, 2013
		Miscellaneous social scientists, including survey researchers and sociologists
Engineers		Engineers
Aeronautical engineers		Aerospace engineers
Chemical engineers		Biomedical and agricultural engineers
Civil engineers		Chemical engineers
Electrical engineers		Civil engineers
Industrial engineers		Computer hardware engineers
Mechanical engineers		Electrical and electronics engineers
Metallurgical engineers and metallurgists		Environmental engineers
Mining engineers		Industrial engineers, including health and safety engineers
Sales engineers		Marine engineers and naval architects
Engineers nec		Materials engineers
		Mechanical engineers
		Petroleum, mining, and geological engineers, including mining safety engineers
		Sales engineers
		Miscellaneous engineers, including nuclear engineers
NOTES:	nec = not elsewhere classified. The data reported in <i>Science and Engineering Indicators on S&E employment level</i> for 1960 and 2013 are calculated using the Census Bureau's 1960 Decennial Census and 2013 American Community Survey (ACS) microdata, respectively, adjusted by the Integrated Public Use Microdata Series (IPUMS) from the University of Minnesota's Minnesota Population Center (www.ipums.org). Computer occupations were not present in the occupational classification system used in 1960. For more information on how occupational classification systems have changed over time, see Wyatt and Hecker's report, "Occupational Changes During the 20th Century" (<i>Monthly Labor Review</i> , March 2006). S&E employment levels for 1960 and 2013 do not include S&E postsecondary teachers. Although the 1960 Census data allow for separate identification of S&E postsecondary teachers, the 2013 ACS data aggregate postsecondary teachers of both S&E and non-S&E fields into one occupation code.	
SOURCE:	National Science Foundation, National Center for Science and Engineering Statistics, based on 1960 Decennial Census and 2013 ACS, Census Bureau. <i>Science and Engineering Indicators 2016</i>	